

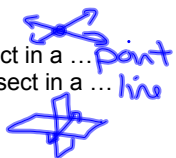
Chapter 1 Review

Vocabulary/Notation

Point, line, plane, collinear, coplanar, segment, bisector, midpoint, angle, etc...

If 2 lines intersect, then they intersect in a ... point
 If 2 planes intersect, then they intersect in a ... line

$\overline{AB} \cong \overline{CD} \checkmark$
 $AB = CD \checkmark$
 ~~$AB \cong CD$~~ X



Distance formula-perimeter problems

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

3b. $\frac{8+x}{2} = 6$
 $8+x = 12$

Midpoint formula

$$M\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$$

3b. $L(8, -1)$ $M(6, 0)$
 $N(x, y)$
 $\frac{-1+y}{2} = 0$
 $-1+y = 0$
 $y = 1$

Find midpoint
 Find endpoint

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Classify angles

Acute, right, obtuse, straight

Naming angles

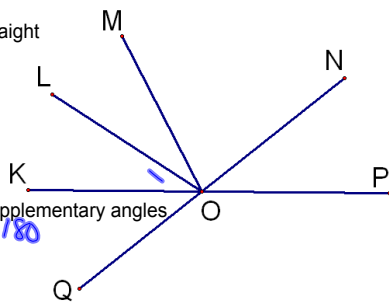
Adjacent angles

Vertical angles

Complementary and supplementary angles

Linear pair

Perpendicular lines \perp



Polygons (prefixes)

Convex or concave

Regular

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"Algebra Problems"

Ask yourself these questions

Are the expressions equal?

Is one half of the other?Do they total 90° ?Do they total 180° ?If 3 parts are given, do two total the 3rd?

Show book website.

http://www.glencoe.com/sec/math/geometry/geo/geo_04/

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Review Problems.

p53-56 #s 1-12, 25, 26, 28-30, 35-37, 39, 40, 42-44

p57 #s 1-21

Answers will be posted on the wiki!

on L.L.

Exercises Choose the letter of the term that best matches each figure.

-
-
-
-
-
-

a. line
b. ray
c. complementary angles
d. midpoint
e. supplementary angles
f. perpendicular
g. point
h. line segment

Exercises Refer to the figure. See Example 1 on page 7.

- Name a line that contains point L.
- Name a point that is not in lines n or p .
- Name the intersection of lines n and m .
- Name the plane containing points E, J, and L.

Draw and label a figure for each relationship. See Example 3 on pages 7-8.

- Lines ℓ and m are coplanar and meet at point C.
- Points S, T, and U are collinear, but points S, T, U, and V are not.

Find the coordinates of the midpoint of a segment having the given endpoints.

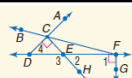
25. $U(-6, -3), V(12, -7)$
26. $P(2, 5), Q(-1, -1)$

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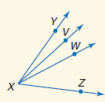
Exercises For Exercises 28–30, refer to the figure at the right. See Example 1 on page 30.

28. Name the vertex of $\angle 4$.
29. Name the sides of $\angle 1$.
30. Write another name for $\angle 3$.



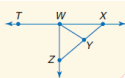
In the figure, XW bisects $\angle YXZ$ and XV bisects $\angle YXW$. See Example 3 on page 32.

35. If $m\angle YXV = 3x$ and $m\angle VZW = 2x + 6$, find $m\angle YXW$.
36. If $m\angle YXW = 12x - 10$ and $m\angle WXZ = 8(x + 1)$, find $m\angle YXZ$.
37. If $m\angle YXZ = 9x + 17$ and $m\angle WXZ = 7x - 9$, find $m\angle YXW$.



Exercises For Exercises 38–41, use the figure at the right. See Examples 1 and 3 on pages 38 and 40.

39. Name a linear pair whose angles have vertex W .
40. If $m\angle TWZ = 2c + 36$, find c so that $TW \perp WZ$.



Exercises Name each polygon by its number of sides. Then classify it as *convex* or *concave* and *regular* or *irregular*. See Example 1 on page 46.

- 42.
- 43.
- 44.

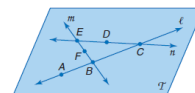
Determine whether each statement is *true* or *false*.

1. A plane contains an infinite number of lines.
2. If two angles are congruent, then their measures are equal.
3. The sum of two complementary angles is 180.
4. Two angles that form a linear pair are supplementary.

Skills and Applications

For Exercises 5–7, refer to the figure at the right.

5. Name the line that contains points B and F .
6. Name a point not contained in lines ℓ or m .
7. Name the intersection of lines ℓ and n .



Find the value of the variable and VW if V is between U and W .

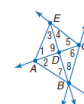
8. $UV = 2$, $VW = 3x$, $UW = 29$
9. $UV = r$, $VW = 6r$, $UW = 42$
10. $UV = 4p - 3$, $VW = 5p$, $UW = 15$
11. $UV = 3c + 29$, $VW = -2c - 4$, $UW = -4c$

Find the distance between each pair of points.

12. $G(0, 0)$, $H(-3, 4)$
13. $N(5, 2)$, $K(-2, 8)$
14. $A(-4, -4)$, $W(-2, 2)$

For Exercises 15–18, refer to the figure at the right.

15. Name the vertex of $\angle 6$.
16. Name the sides of $\angle 4$.
17. Write another name for $\angle 7$.
18. Write another name for $\angle ADE$.



19. **ALGEBRA** The measures of two supplementary angles are $4r + 7$ and $r - 2$. Find the measures of the angles.
20. Two angles are complementary. One angle measures 26 degrees more than the other. Find the measures of the angles.

Find the perimeter of each polygon.

21. triangle PQR with vertices $P(-6, -3)$, $Q(1, -1)$, and $R(1, -5)$

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